

AUTOPATCH MICROPHONE **MC-48**

INSTRUCTION MANUAL

INTRODUCTION

The MODEL MC-48 is an AUTOPATCH MICROPHONE specifically designed to be used with KENWOOD TRANSCEIVER models TW-4000A, TM-201A and TM-401A. It features a 16 key AUTOPATCH encoder and frequency UP and DOWN switches.

FEATURES:

1. Microphone is equipped with a tone-pad encoder.
2. A built-in delay holds the microphone (and transceiver) in transmit mode for about 0.7 second between key presses.
3. Micro switch is used for PTT.
4. Specifically designed for transceiver operation to provide good sensitivity and frequency response and clear tones.

APPLICABLE MODEL

TW-4000A

TM-201A, TM-401A

SPECIFICATIONS

[GENERAL]

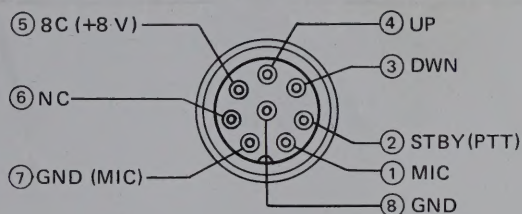
Power requirement	8.5 V DC \pm 10%
Current drain:	Less than 20mA (at 8.5 V DC)
Connector:	8 pins
Dimensions:	W 51 x H 73 x D 33 mm
Weight:	145 gr. (Approx.)

[MICROPHONE]

Element:	Electret condensor
Sensitivity:	-70 dB (0 dB = 1 V/1 μ bar)
impedance:	900 Ω

[AUTOPATCH]

Key:	16 keys
Tone output	3.8mV/5.6K Ω (Adjustable) (With the keys 3 and 6 simultaneously depressed)



FRONT VIEW

OPERATION:

16 Key AUTOPATCH encoder

When the tone encoder is started operating, the transceiver is set in transmit mode even with the PTT switch released.

Frequency UP/DOWN switches

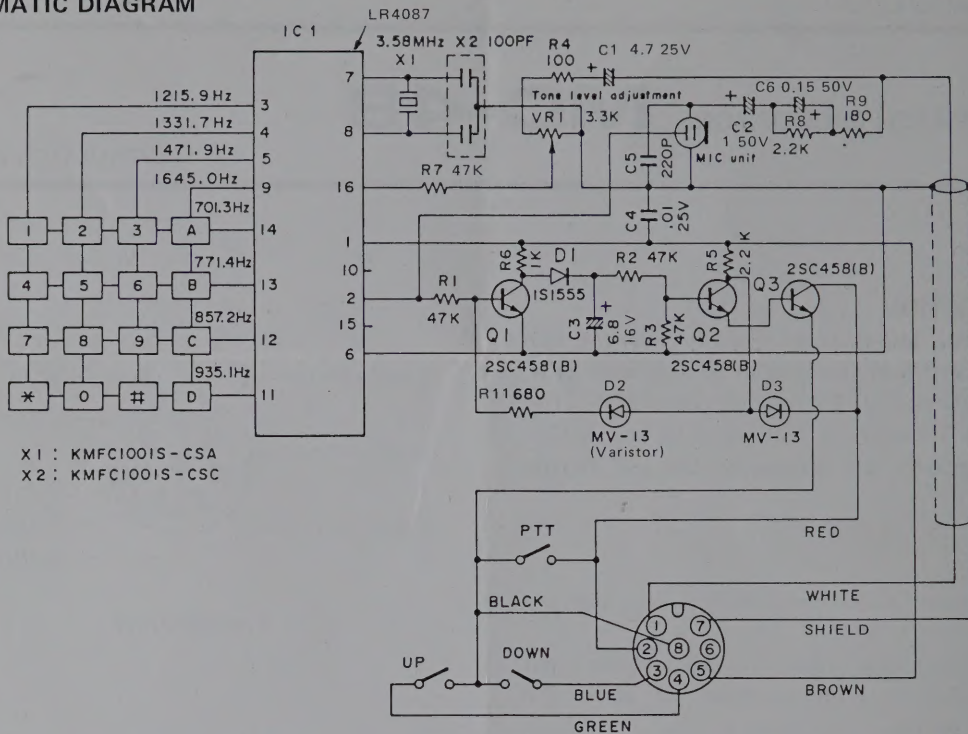
These switches are used to step the operating frequency up or down.

When the UP or DOWN switch is held depressed, the frequency shifts rapidly.

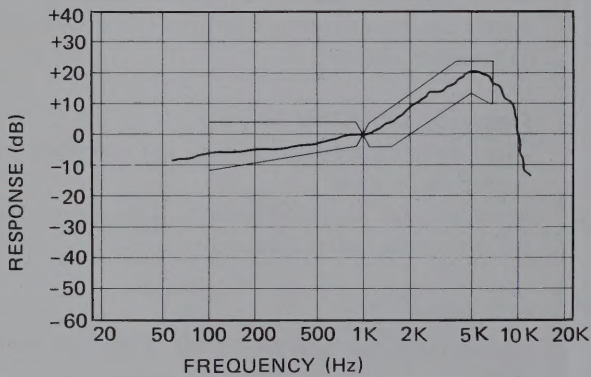
PTT switch

Simply press the PTT switch to activate the transmitter.

SCHEMATIC DIAGRAM



FREQUENCY RESPONSE



PARTS LIST

DESCRIPTION	PART NUMBER
Case (Front)	A02-0614-08
Case (Rear)	A02-0615-08
UP button	K29-0746-08
DOWN button	K29-0747-08
PTT knob	K29-0748-08
Coiled cable	E30-1754-08
Bushing	J42-0440-08
Electret microphone element	T97-1024-08
Micro switch	S50-1408-08
Tactile switch	S50-1406-05
IC	LR4087
Ceramic resonator	L78-0003-05
Key board Ass'y	S59-0407-08
Tone module	W02-0320-08

A product of
TRIO-KENWOOD CORPORATION
17-5, 2-chome, shibuya, shibuya-ku Tokyo 150, Japan

TRIO-KENWOOD COMMUNICATIONS
1111 West Walnut Street, Compton, California 90220, U.S.A.
TRIO-KENWOOD COMMUNICATIONS, GmbH
D-6374 Steinbach TS, Industriestrasse 8A, West Germany
TRIO-KENWOOD ELECTRONICS, N.V.
Leuvensesteenweg 504, B-1930 Zaventem, Belgium
TRIO-KENWOOD (AUSTRALIA) PTY. LTD.
4E Woodcock Place, Lane Cove N.S.W. 2066, Australia